

FIG. 1

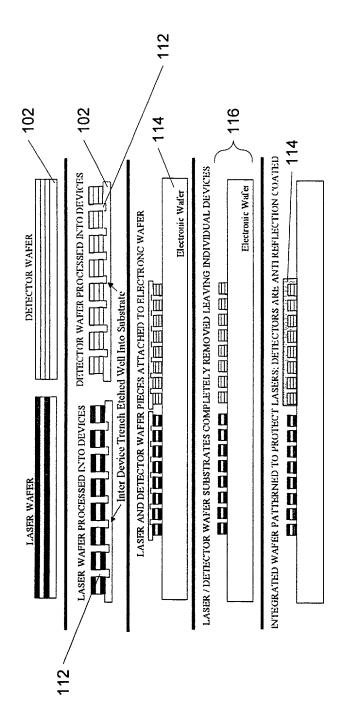


FIG. 2

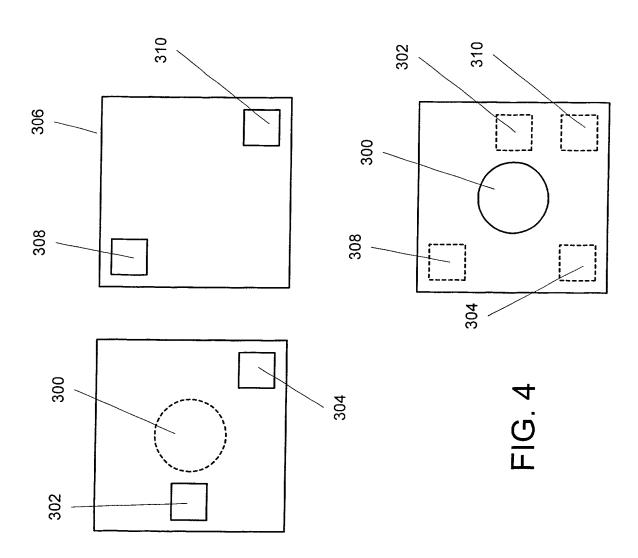


FIG. 3

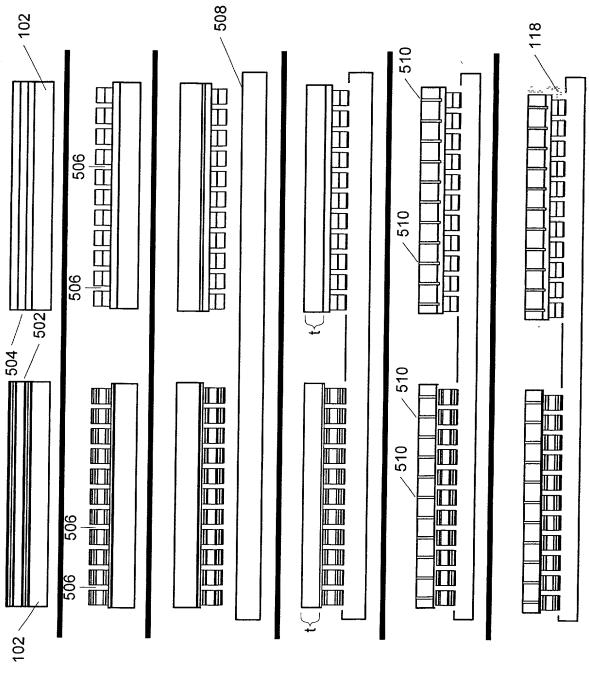


FIG. 5

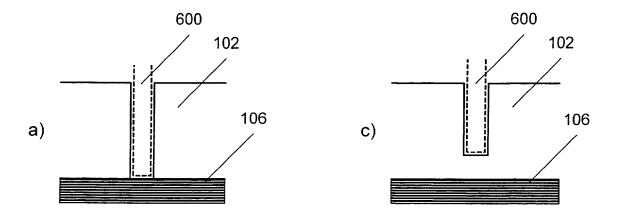
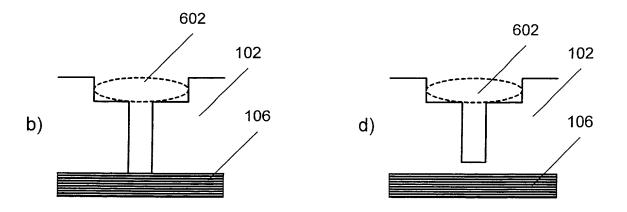


FIG. 6



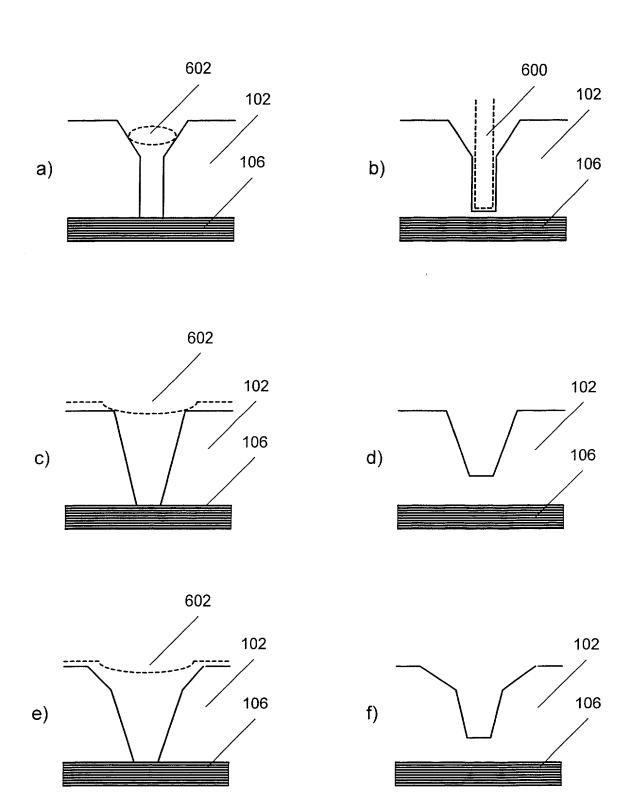
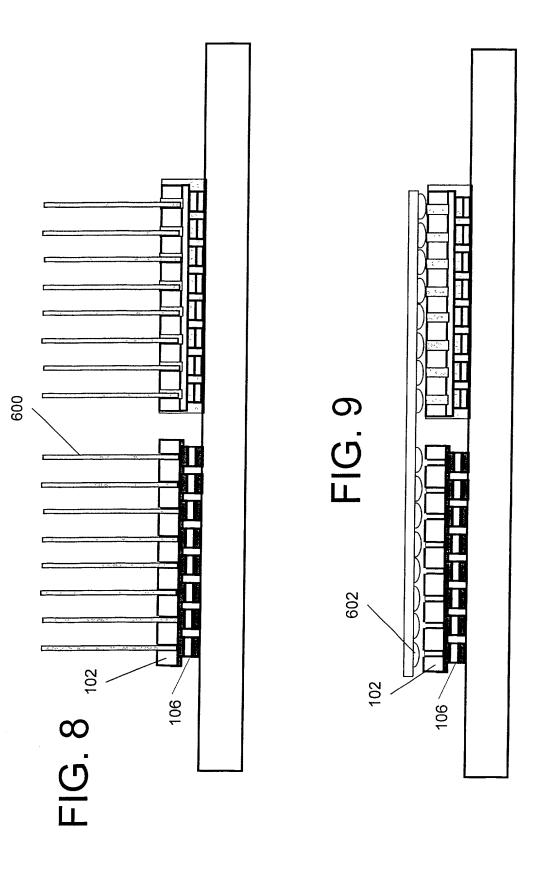


FIG. 7



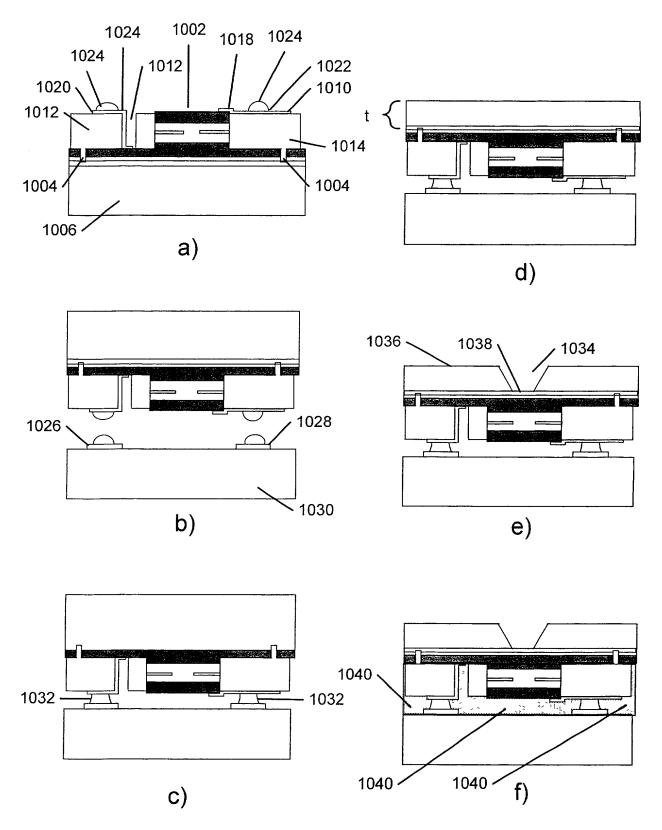
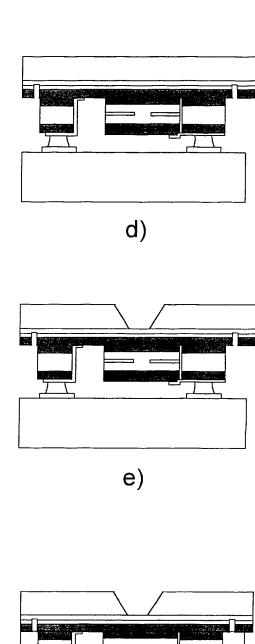


FIG. 10

c)



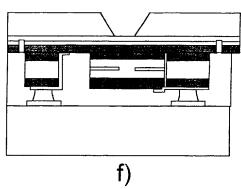


FIG. 11

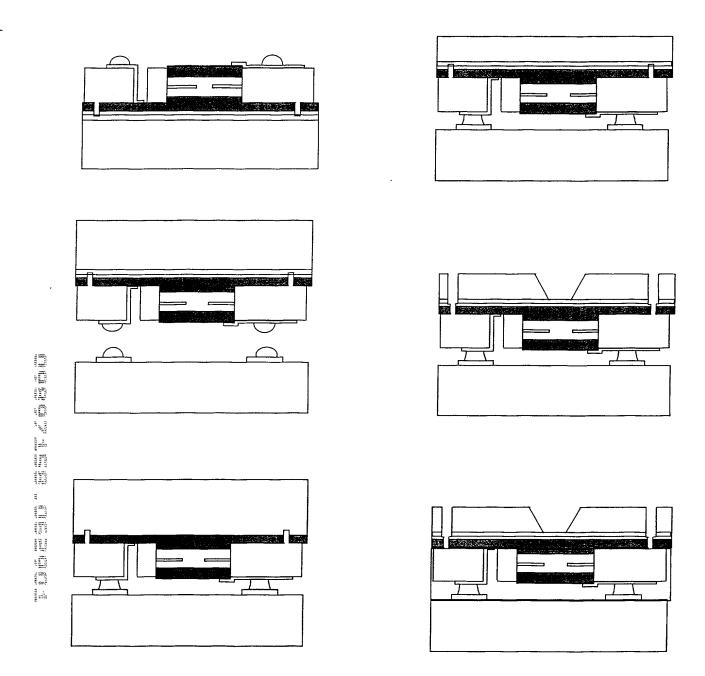
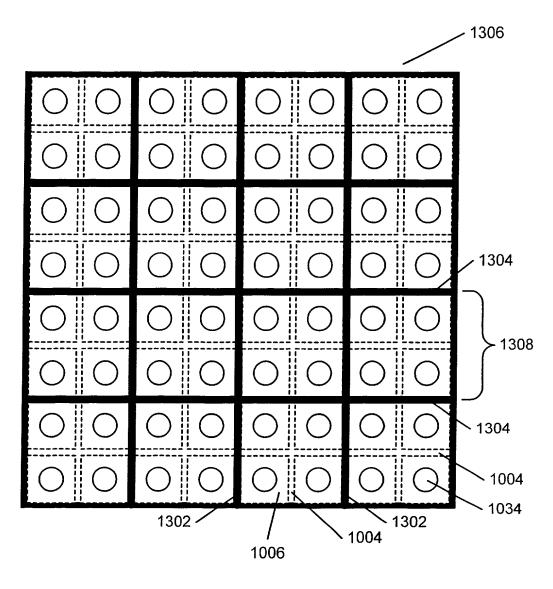


FIG. 12



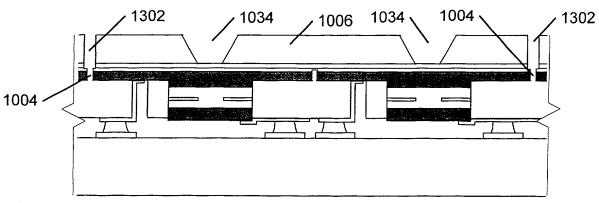
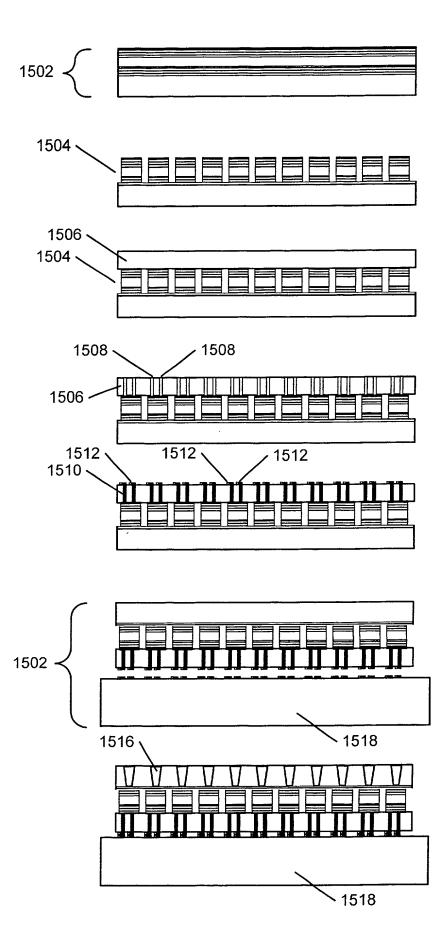


FIG. 13

FIG. 14

FIG. 15



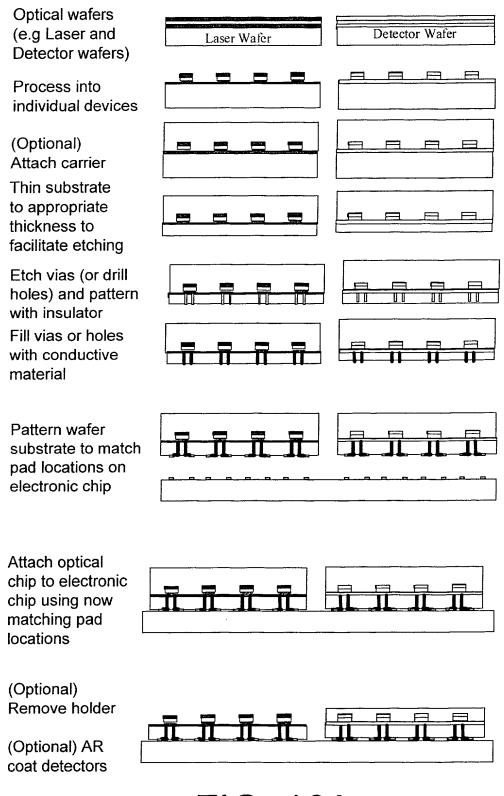
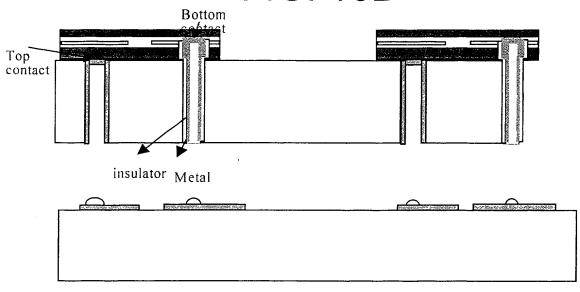
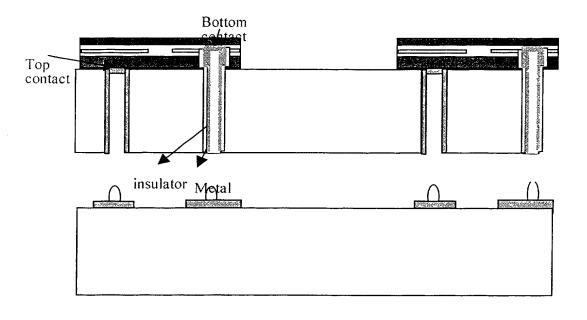
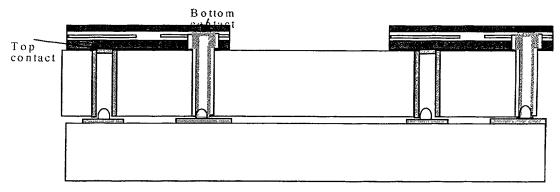


FIG. 16A

FIG. 16B







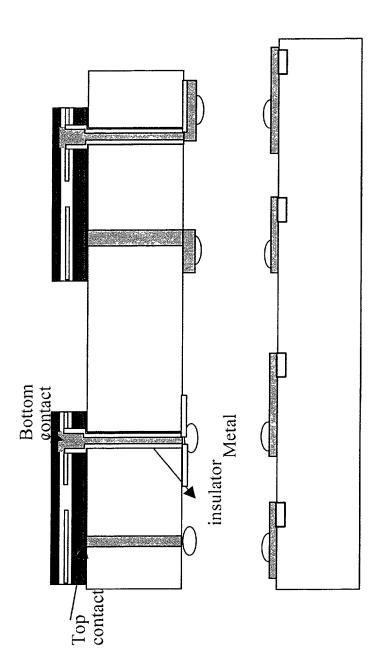


FIG. 16C

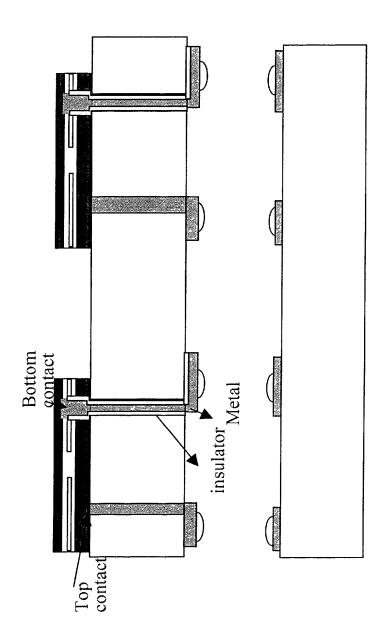
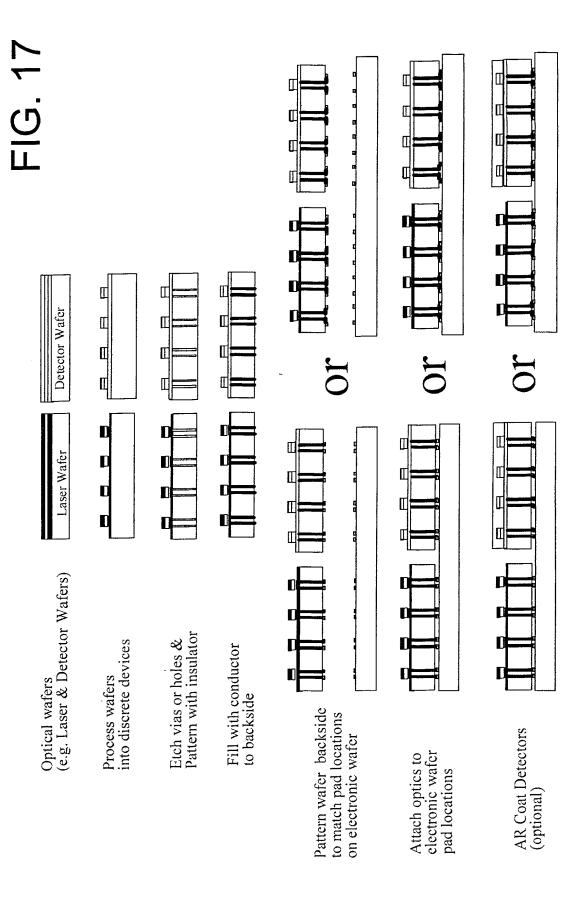
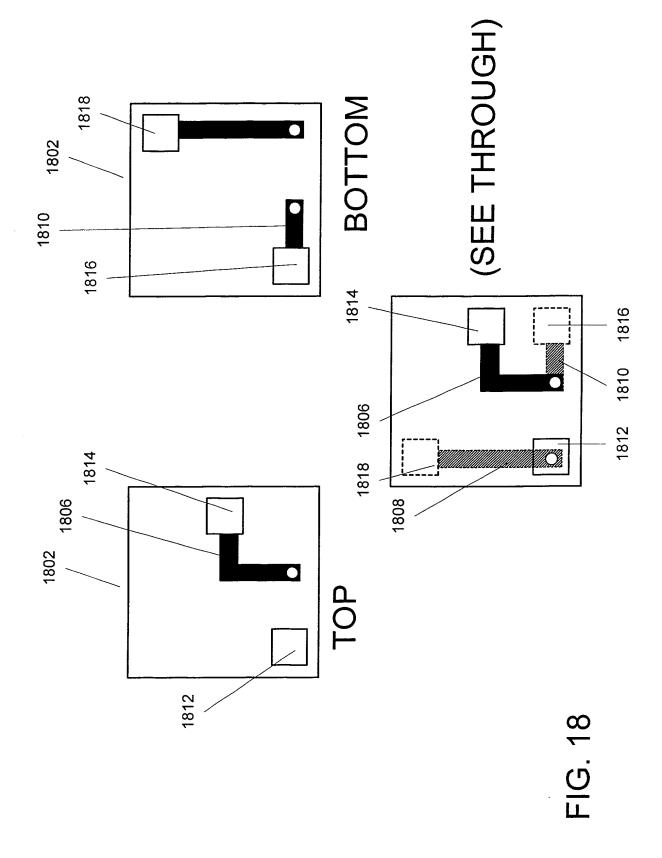


FIG. 16D





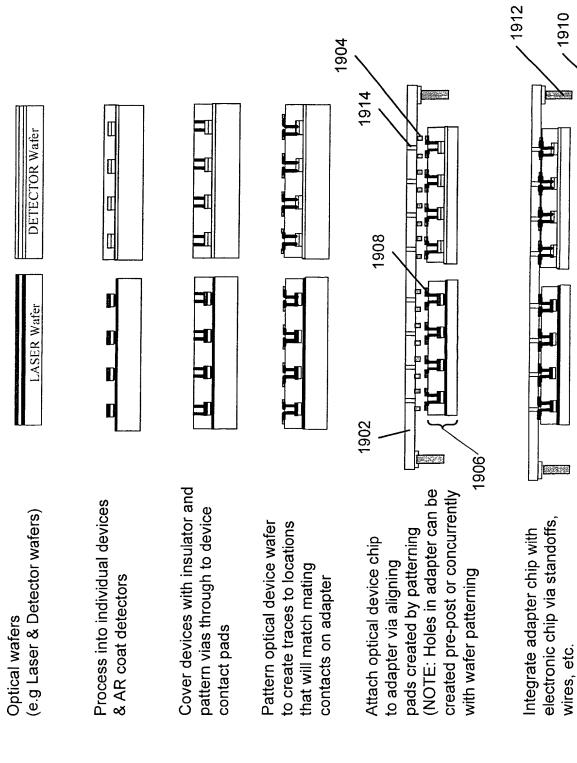


FIG. 19

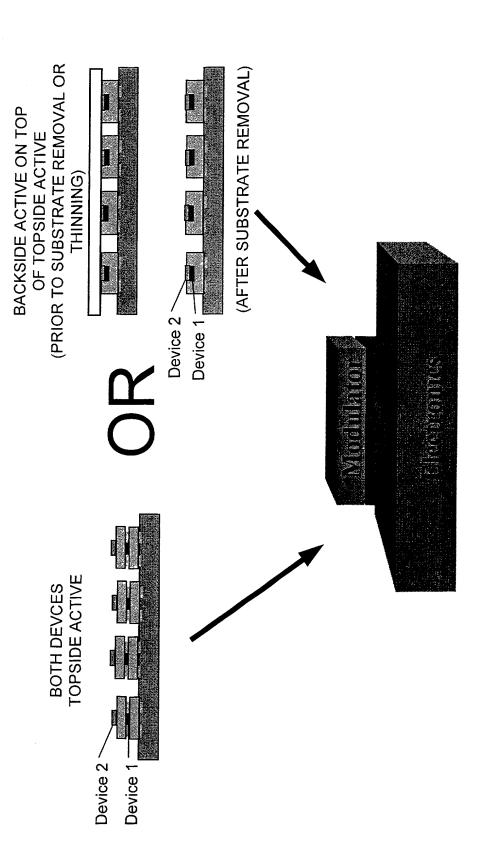


FIG. 20A

40 Gb/s = 20 GHz = 50 ps Wavelength in free space =  $3 \times 10^{10} \text{ cm/s} \times 50^{12} \text{s} = 1.5 \text{cm}$  1/8 wavelength in n=3 = 640 microns

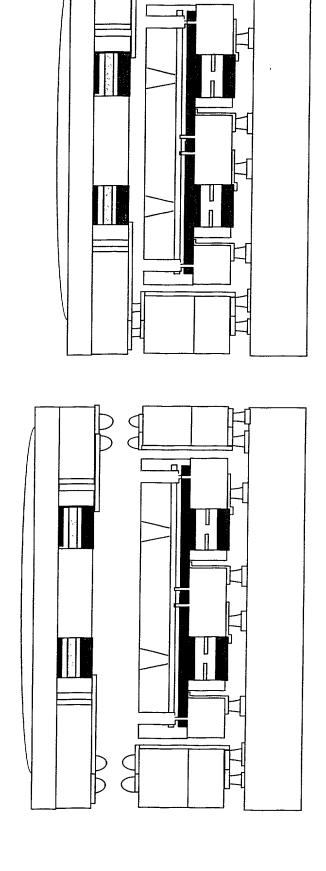




FIG. 21

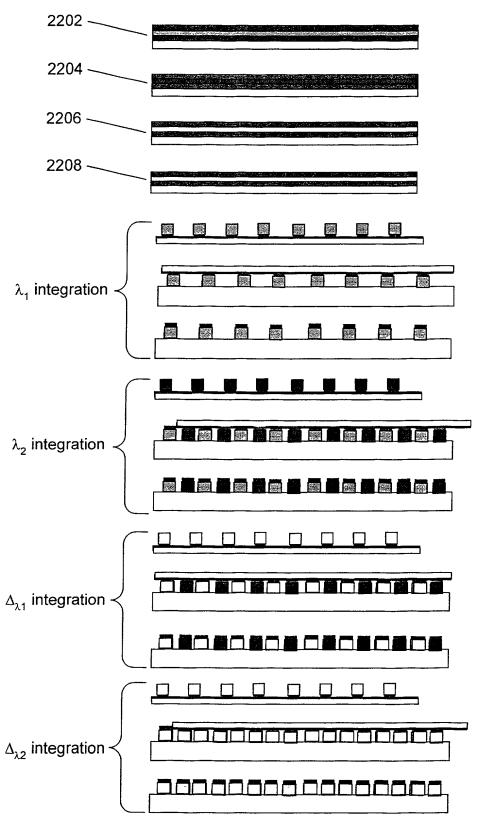


FIG. 22

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